

Art Unit: 1731  
Docket No.: 11728/4

1731

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : J. SUGAWARA et al.  
 Serial No. : 10/019,752  
 Filed : December 27, 2001  
 For : BLACK CERAMIC SINTER WITH LOW THERMAL EXPANSION AND HIGH SPECIFIC RIGIDITY AND PROCESS FOR PRODUCING THE SAME

Assistant Commissioner  
for Patents  
Washington, D.C. 20231

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TC 1700

TRANSMITTAL LETTER

SIR:

Transmitted herewith is an Amendment/Response in the above-identified patent application.

[X] No additional fee is required.

The fee has been calculated as shown below.

CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PREVIOUSLY PAID FOR	RATE EXTRA	OTHER THAN A SMALL ENTITY	
			ADDIT. OR FEE	RATE FEE
TOTAL 19	MINUS 20 = 0	x9 = \$	x18 = \$	0.00
INDEP. 3	MINUS 3 = 0	x40 = \$	x84 = \$	0.00
[ ] FIRST PRESENTATION OF MULTIPLE			x135= \$ _____	x280= \$ _____
DEP. CLAIM		TOTAL ADDIT. FEE	\$ _____ OR	\$ _____

[X] The Commissioner is hereby authorized to charge fees under 37 CFR 1.16 and 1.17 which may be required to Deposit Account 11-0600. A duplicate of this paper is enclosed.

[ ] A petition for a \_\_\_\_\_ month extension of time and Deposit Account authorization to cover the extension fee are enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on April 25, 2002

John J. Kelly Jr.  
John J. Kelly, Jr.  
Reg. No. 29,182

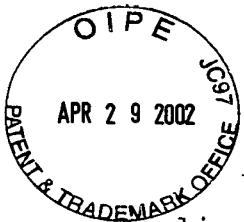
Respectfully submitted,  
KENYON & KENYON

By: John J. Kelly Jr.  
John J. Kelly, Jr.  
Reg. No. 29,182

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John J. Kelly Reg. No.: 29,182

*John J. Kelly Jr.*



#5  
Rec'd May 3-8-02  
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MAY 2 2002  
TC 100  
Art Unit : 1731 2002  
Docket No.: 112874

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: J. SUGAWARA et al.

Serial No.: 10/019,752

Filed : December 27, 2001

For : BLACK CERAMIC SINTER WITH LOW THERMAL EXPANSION AND HIGH SPECIFIC RIGIDITY AND PROCESS FOR PRODUCING THE SAME

Assistant Commissioner for Patents  
Washington, D.C. 20231

SECOND PRELIMINARY AMENDMENT

Sir:

Please amend the specification of the above-identified patent application as follows.

**Please replace the paragraph appearing at page 5,  
lines 13-25 with the following new paragraph.**

The silicon carbide sintered body has been commercially available as a black ceramic substance. JP-A-08-310,860 discloses a black zirconia ceramic sintered body, JP-A-04-50,161 a method for the production of a high rigidity black alumina sintered body, and JP-A-06-172,034 a black silicon nitride sintered body, respectively. Though these sintered bodies are black, their thermal expansion coefficients at room temperature are  $2.3 \times 10^{-6}/^{\circ}\text{C}$

*B* / in the sintered body of silicon carbide,  $7 \times 10^{-6}/^{\circ}\text{C}$  in that of zirconia,  $5.3 \times 10^{-6}/^{\circ}\text{C}$  in that of alumina, and  $1.3 \times 10^{-6}/^{\circ}\text{C}$  in that of silicon nitride. Thus, these sintered bodies are incapable of realizing a low thermal expansion coefficient aimed at this invention.

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